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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/566,170	01/27/2006	Yoshinobu Sekiguchi	00862.109138. 2513	
5514 FITZPATRICK	7590 10/15/200 CELLA HARPER &	EXAMINER		
30 ROCKEFELLER PLAZA			LEE, CALVIN	
NEW YORK, NY 10112			ART UNIT	PAPER NUMBER
		•	2818	
	•			
			MAIL DATE	DELIVERY MODE
			10/15/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

•	Application No.	Applicant(s)				
	10/566,170	SEKIGUCHI et al.				
Office Action Summary	Examiner	Art Unit				
	Calvin Lee	2818				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on						
2a) This action is FINAL . 2b) ☐ This	This action is FINAL . 2b)⊠ This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-31</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdra	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>27-31</u> is/are allowed.						
6)⊠ Claim(s) <u>1-16</u> is/are rejected.)⊠ Claim(s) <u>1-16</u> is/are rejected.					
7) Claim(s) <u>17-26</u> is/are objected to.	er alastian requirement					
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner:						
10) The drawing(s) filed on $1/27/06$ is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119		•				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)	_					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 	4) Interview Summa . Paper No(s)/Mail					
3) Notice of Informal Patent Application 5) Notice of Informal Patent Application						
Paper No(s)/Mail Date <u>11/29/06 & 5/2/07</u> . 6) Other:						

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OFFICE ACTION

Claim Rejections - 35 U.S.C. § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the US before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the US before the invention by the applicant for patent.
- 2. Claims 1-9, 11, and 14 are rejected under 35 U.S.C. 102(e) as being unpatentable over Lahreche et al (US 2005/0217565).

Lahreche et al discloses method of manufacturing a semiconductor film separated from a seed substrate, comprising the steps:

- -a separation layer forming step of hetero-epitaxially growing a separation layer 5 on the seed substrate 1 [Fig. 4];
- -a semiconductor film forming step of forming a semiconductor film 7 on the separation layer 5; -and a separation step of separating, by using the separation layer, the semiconductor film from a composite member formed in the semiconductor film forming step [Fig. 5 and pg. 4].

Claim Rejections - 35 U.S.C. § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious to one having skills in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention made.
- 4. Claim 10, 12-13, and 15-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lahreche et al (US 2005/0217565).

Lahreche et al does not explicitly teach or suggest the seed substrate and/or separation layer made of chosen materials. However, it's a matter of design choice to preferred layer materials.

It would have been obvious to one having skills in the art to utilize the teaching of *Lahreche* et al, and thus arrive at the claimed invention, since it has been held to be within the general skill in the art to select desired materials of the semiconductor layers on the basis of its suitability for the intended use as a matter of obvious design choice. *In re Leshin*, 125 SUPQ 416.

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Allowable Subject Matter

5. Claims 17-26 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims because none of the available references teach or suggest "a separation assisting layer by using a material to be selectively etched ... to the substrate and the separation layer;" "a device forming step of forming a semiconductor device on the semiconductor film;"

Claims 27-31 are allowed since Lahreche et al '565 is silent about both "bonding step of bonding the seed substrate with the separation layer and the semiconductor film to a handle substrate while setting the separation layer inside; and a separation step of separating the semiconductor film, ... from a composite member formed in the bonding step to obtain a substrate having the semiconductor film on the handle substrate.

Contact Information

6. Any inquiry concerning this communication from the Examiner should be directed to Calvin Lee at (571) 272-1896 on Mondays thru Thursdays 6:30-4:30 (EST). If attempts to reach the examiner by telephone are unsuccessful, Art Unit 2818's Supervisory Patent Examiner *Steven Loke* can be reached at (571) 272-1657. The central fax number for the organization (where this application is assigned to) is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system at http://pair-direct.uspto.gov Should you have questions on access to the PAIR system, contact the Electronic Business Center at (866) 217-9197.

Dated: October 2, 2007

Calvin Lee

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